

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
15 September 2005 (15.09.2005)

PCT

(10) International Publication Number
WO 2005/086273 A1

(51) International Patent Classification⁷: **H01M 8/24**, 8/02

(21) International Application Number:
PCT/EP2005/002243

(22) International Filing Date: 3 March 2005 (03.03.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/549,593 3 March 2004 (03.03.2004) US

(71) Applicant (for all designated States except US): **IRD FUEL CELLS A/S** [DK/DK]; Kullinggade 31, DK-5700 Svendborg (DK).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **FREDERIKSEN, Henning** [DK/DK]; Svinget 10G, DK-5700 Svendborg

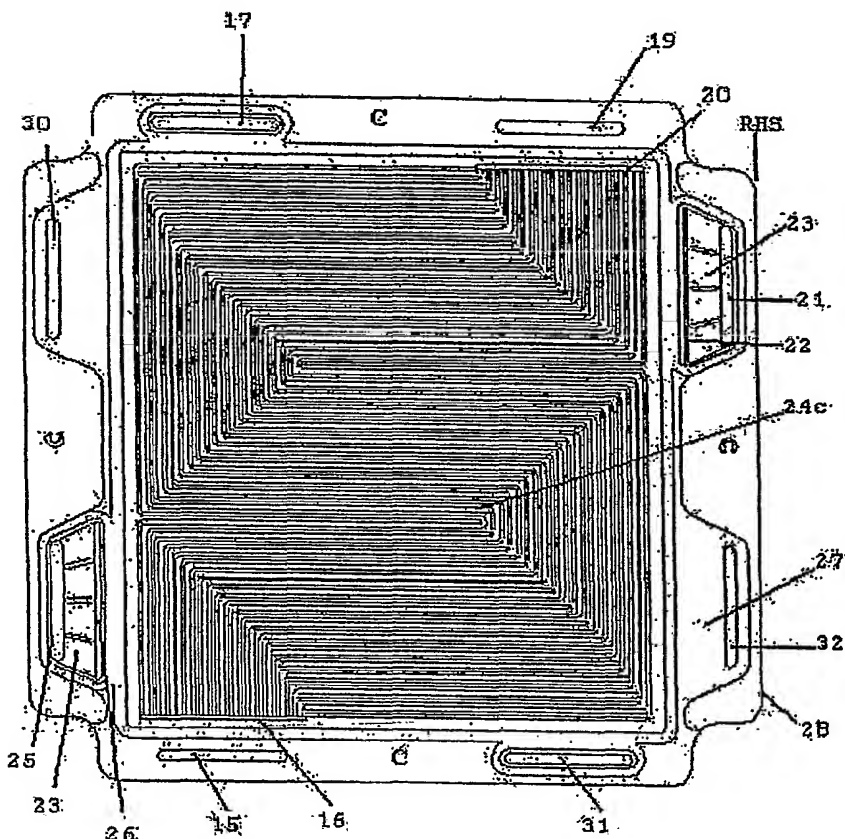
(DK). **YDE-ANDERSEN, Steen** [DK/DK]; Strandhuse 56, DK-5700 Svendborg (DK). **GRAHL-MADSEN, Laila** [DK/DK]; Havnegade 21, DK-5874 Hesselager (DK). **LUNDGAARD, Joergen, Schjerning** [DK/DK]; Otte Ruds Vej 1, DK-5700 Svendborg (DK).

(74) Agents: **PEEBLES, Katrina** et al.; Ablett & Stebbing, Caparo House, 101-103 Baker Street, London W1U 6FQ (GB).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

[Continued on next page]

(54) Title: DUAL FUNCTION, BIPOLAR SEPARATOR PLATES FOR FUEL CELLS



(57) Abstract: Dual function, bipolar separator plates are provided for use in fuel cells. These separator plates contain both a cathodic flow field and an anodic flow field in a single separator plate.



(84) **Designated States** (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

Published:

— *with international search report*